

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM051021\
 Data File : BM029951.D
 Acq On : 11 May 2021 20:13
 Operator : CG/JU
 Sample : M2177-21
 Misc :
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 BG591

Manual Integrations
 APPROVED

mohammad
 5/12/2021 2:06:50 PM

Quant Time: May 12 01:16:19 2021
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SFAM-EPA-BM050721.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue May 11 15:21:38 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.55	152	137241	20.00	ng/ul	0.00
20) Naphthalene-d8	10.32	136	604668	20.00	ng/ul	0.00
38) Acenaphthene-d10	14.19	164	373329	20.00	ng/ul	-0.01
64) Phenanthrene-d10	16.94	188	713549	20.00	ng/ul	0.00
79) Chrysene-d12	21.13	240	662641	20.00	ng/ul	0.00
88) Perylene-d12	23.29	264	681482	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.07	96	5917	1.72	ng/uL	0.00
4) Pyridine-d5	0.00	84	0d	0.00	ng/ul	
7) Phenol-d5	6.73	99	150157	11.77	ng/ul	0.00
9) Bis-(2-Chloroethyl)ether-d	6.89	67	103220	13.04	ng/ul	0.00
11) 2-Chlorophenol-d4	7.08	132	127856	12.98	ng/ul	0.00
15) 4-Methylphenol-d8	8.26	113	126835	12.02	ng/ul	0.00
21) Nitrobenzene-d5	8.70	128	55099	13.22	ng/ul	0.00
24) 2-Nitrophenol-d4	9.42	143	59792	12.71	ng/ul	0.00
28) 2,4-Dichlorophenol-d3	9.96	165	122564	13.00	ng/ul	0.00
31) 4-Chloroaniline-d4	10.47	131	134161	9.35	ng/ul	0.00
46) Dimethylphthalate-d6	13.62	166	416522	14.39	ng/ul	0.00
49) Acenaphthylene-d8	13.89	160	517647	14.12	ng/ul	0.00
54) 4-Nitrophenol-d4	14.46	143	25739m	5.46	ng/ul	0.03
60) Fluorene-d10	15.19	176	370676	15.09	ng/ul	0.00
65) 4,6-Dinitro-2-methylphenol	15.33	200	37078	8.00	ng/ul	0.00
73) Anthracene-d10	17.04	188	538637	14.99	ng/ul	0.00
81) Pyrene-d10	19.34	212	577204	16.98	ng/ul	0.00
92) Benzo(a)pyrene-d12	23.15	264	594883	15.40	ng/ul	0.00

Target Compounds

					Ovalue
30) Naphthalene	10.37	128	199775	5.952	ng/ul 99
36) 2-Methylnaphthalene	11.99	142	79417	3.262	ng/ul 97
37) 1-Methylnaphthalene	12.22	142	75631	3.135	ng/ul 95
52) Acenaphthene	14.26	153	195584	7.803	ng/ul 99
56) Dibenzofuran	14.60	168	83358	2.428	ng/ul 96
61) Fluorene	15.25	166	137410	4.682	ng/ul 99
72) Phenanthrene	16.99	178	1805144	42.904	ng/ul 100
74) Anthracene	17.07	178	298604	6.942	ng/ul 98
77) Carbazole	17.35	167	150170	3.810	ng/ul 98
80) Fluoranthene	19.00	202	2182408	52.752	ng/ul 98
82) Pyrene	19.37	202	1935827	44.463	ng/ul 99
85) Benzo(a)anthracene	21.12	228	1032563	23.883	ng/ul 99
86) Bis(2-ethylhexyl)phthalate	21.06	149	60448	2.266	ng/ul 98
87) Chrysene	21.17	228	973133	22.599	ng/ul 98
90) Benzo(b)fluoranthene	22.64	252	1386360	31.362	ng/ul 97
91) Benzo(k)fluoranthene	22.68	252	439641m	9.460	ng/ul
93) Benzo(a)pyrene	23.19	252	969854	24.158	ng/ul 99
94) Indeno(1,2,3-cd)pyrene	25.43	276	644187	13.257	ng/ul 95
95) Dibenzo(a,h)anthracene	25.44	278	167928	4.077	ng/ul# 92
96) Benzo(a,h,i)perylene	26.09	276	517017	13.132	ng/ul 98

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ALS Vial : 50 Sample Multiplier: 1

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Quant Time: May 12 01:16:19 2021
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SFAM-EPA-BM050721.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue May 11 15:21:38 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

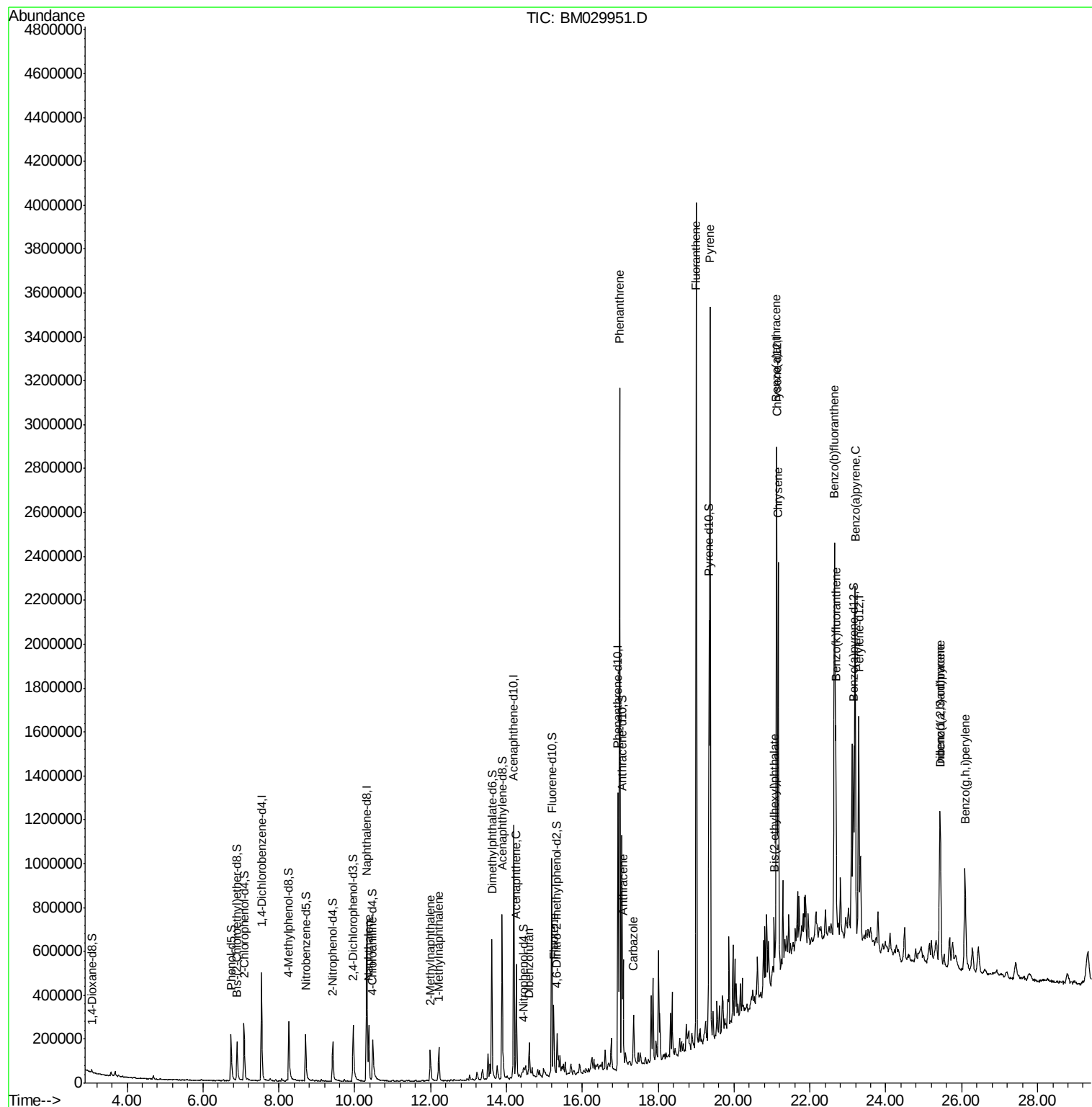
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM051021\
Data File : BM029951.D
Acq On : 11 May 2021 20:13
Operator : CG/JU
Sample : M2177-21
Misc :
ALS Vial : 50 Sample Multiplier: 1

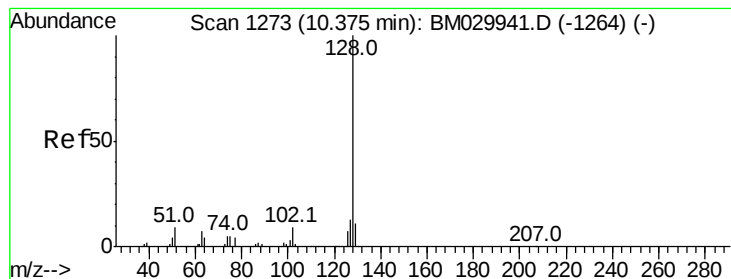
Instrument :
BNA_M
ClientSampleId :
BG591

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#30

Naphthalene

Concen: 5.952 ng/ul

RT: 10.37 min Scan# 1272

Delta R.T. -0.01 min

Lab File: BM029951.D

Acq: 11 May 2021 20:13

Instrument :

BNA_M

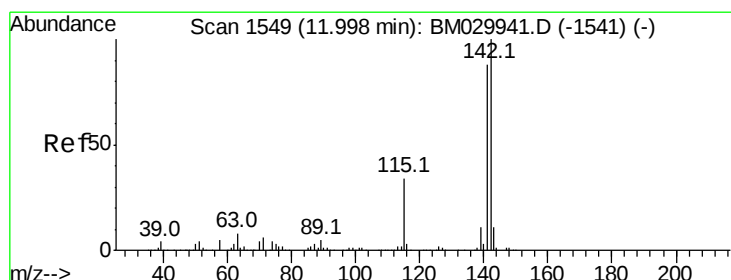
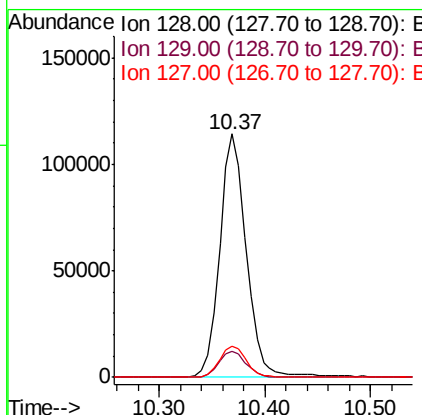
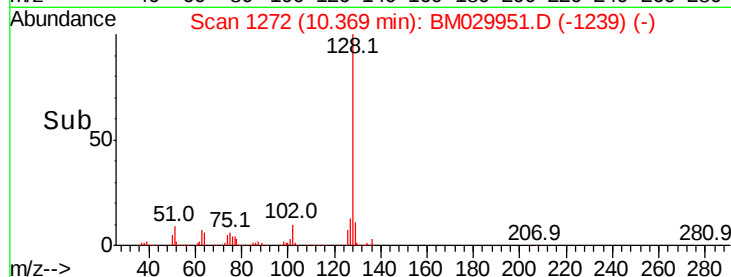
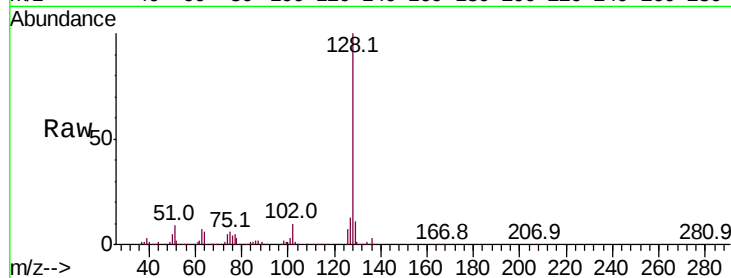
ClientSampleId :

BG591

Tot Ion:	128	Resp:	199775
Ion Ratio	Lower	Upper	
128	100		
129	10.6	8.5	12.7
127	12.6	10.4	15.6

Manual Integrations
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#36

2-Methylnaphthalene

Concen: 3.262 ng/ul

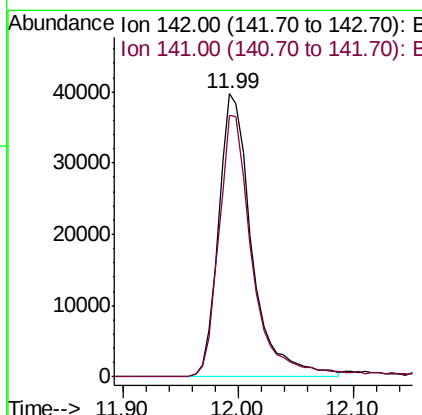
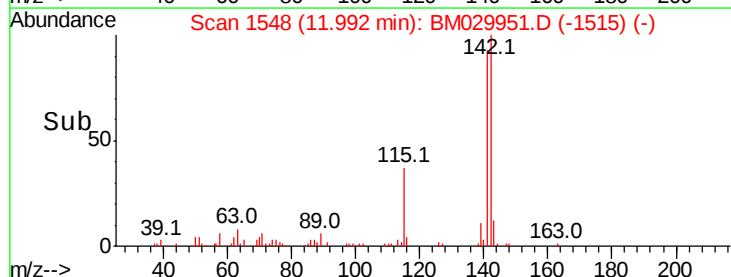
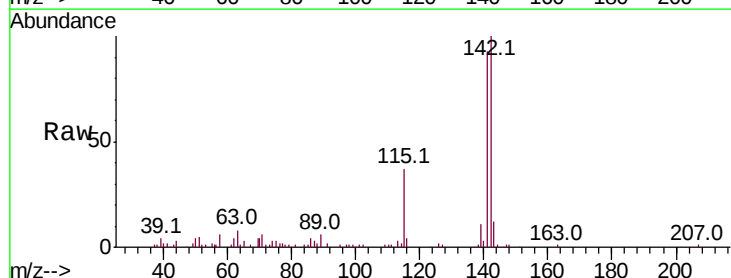
RT: 11.99 min Scan# 1548

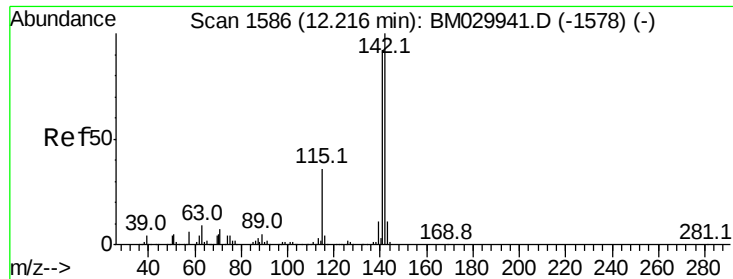
Delta R.T. -0.01 min

Lab File: BM029951.D

Acq: 11 May 2021 20:13

Tgt Ion:	142	Resp:	79417
Ion Ratio	Lower	Upper	
142	100		
141	92.6	72.1	108.1





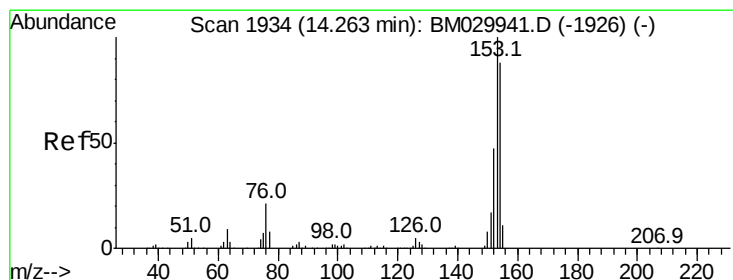
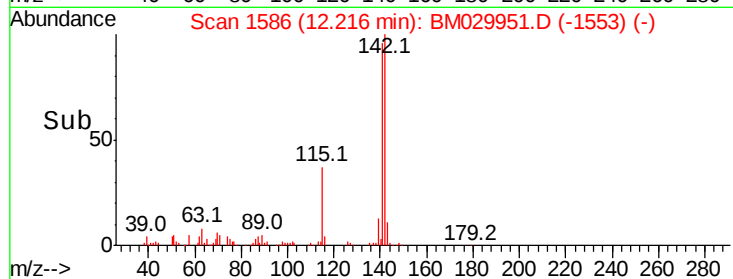
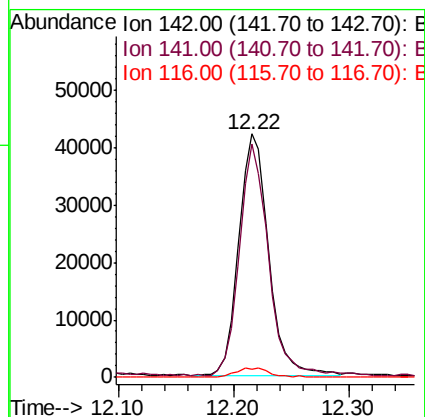
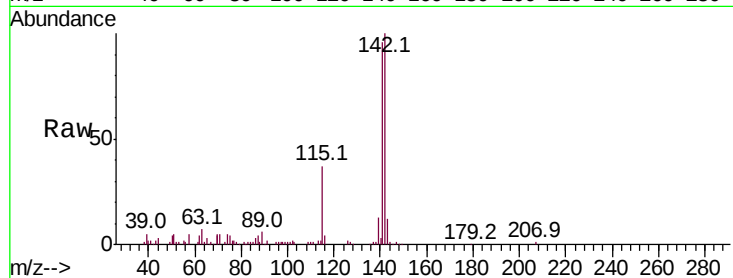
#37
 1-Methylnaphthalene
 Concen: 3.135 ng/ul
 RT: 12.22 min Scan# 1586
 Delta R.T. -0.01 min
 Lab File: BM029951.D
 Acq: 11 May 2021 20:13

Instrument :
 BNA_M
 ClientSampleID :
 BG591

Tot Ion:	142	Resp:	75631
Ion Ratio	Lower	Upper	
142	100		
141	95.9	72.9	109.3
116	3.6	3.0	4.6

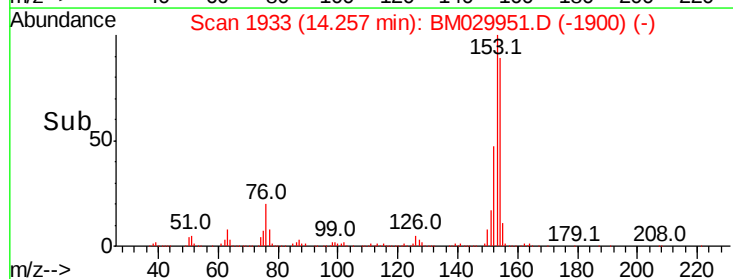
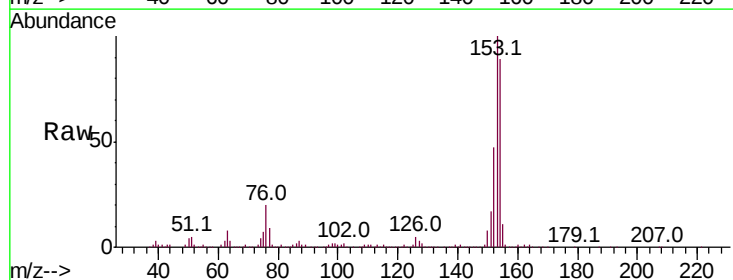
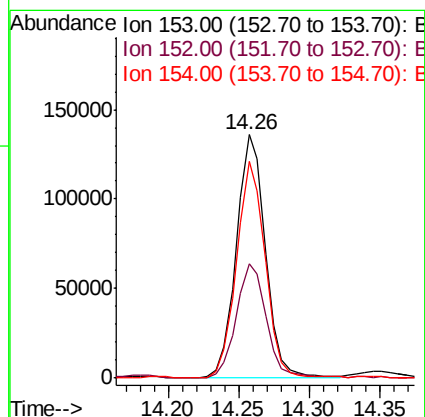
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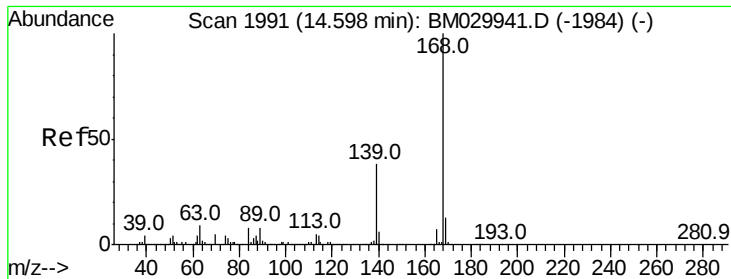
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#52
 Acenaphthene
 Concen: 7.803 ng/ul
 RT: 14.26 min Scan# 1933
 Delta R.T. -0.01 min
 Lab File: BM029951.D
 Acq: 11 May 2021 20:13

Tgt Ion:	153	Resp:	195584
Ion Ratio	Lower	Upper	
153	100		
152	47.0	37.7	56.5
154	89.1	70.2	105.4





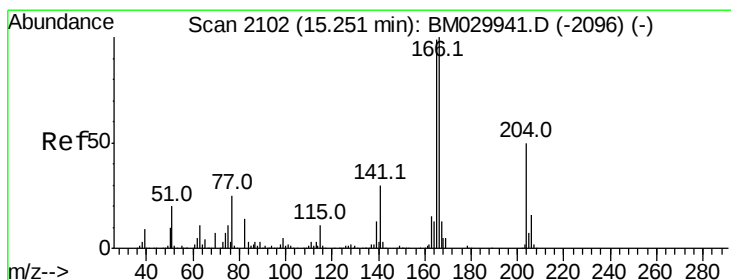
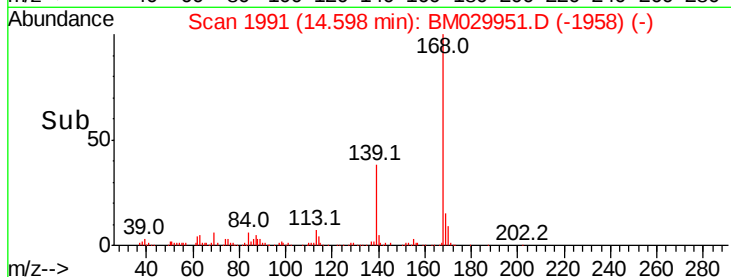
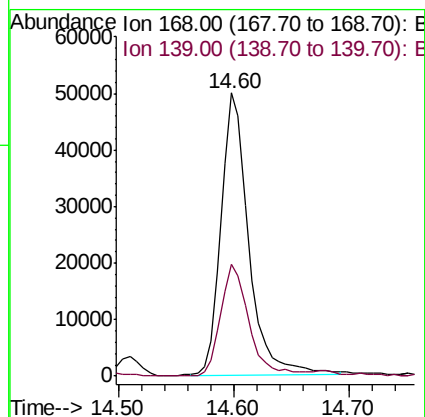
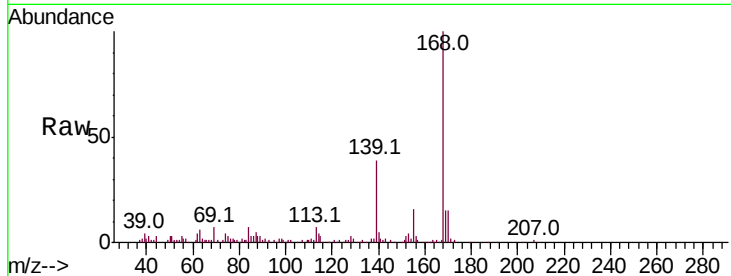
#56
Dibenzenofuran
Concen: 2.428 ng/ul
RT: 14.60 min Scan# 1991
Delta R.T. -0.01 min
Lab File: BM029951.D
Acq: 11 May 2021 20:13

Instrument :
BNA_M
ClientSampled :
BG591

Tot Ion	Ratio	Lower	Upper
168	100		
139	39.5	29.8	44.6

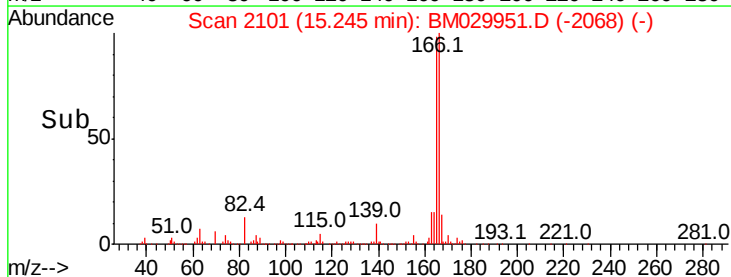
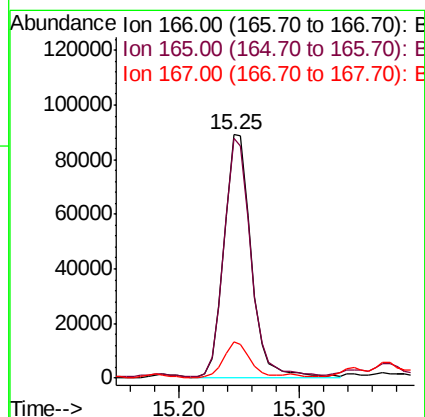
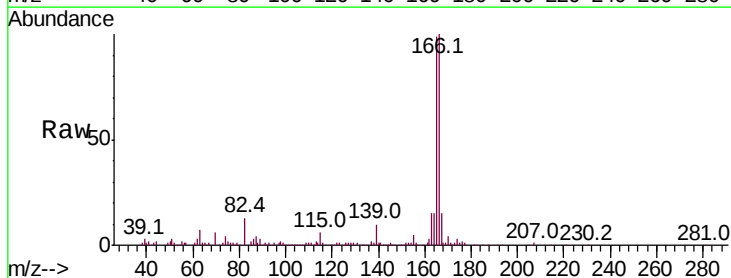
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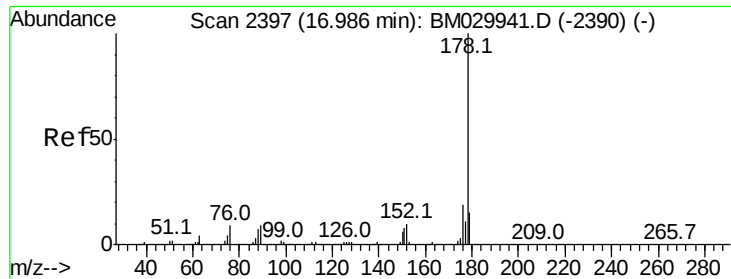
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#61
Fluorene
Concen: 4.682 ng/ul
RT: 15.25 min Scan# 2101
Delta R.T. -0.01 min
Lab File: BM029951.D
Acq: 11 May 2021 20:13

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.6	78.4	117.6
167	15.1	10.9	16.3





#72

Phenanthrene

Concen: 42.904 ng/ul

RT: 16.99 min Scan# 2397

Delta R.T. 0.00 min

Lab File: BM029951.D

Acq: 11 May 2021 20:13

Instrument :

BNA_M

ClientSampleId :

BG591

Tot Ion:178 Resp: 1805144

Ion Ratio Lower Upper

178 100

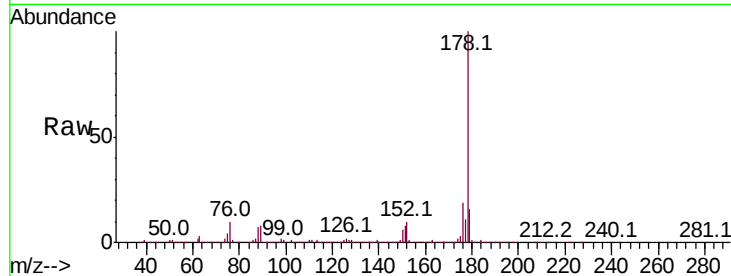
179 15.6 12.2 18.4

176 18.7 15.0 22.4

Manual Integrations
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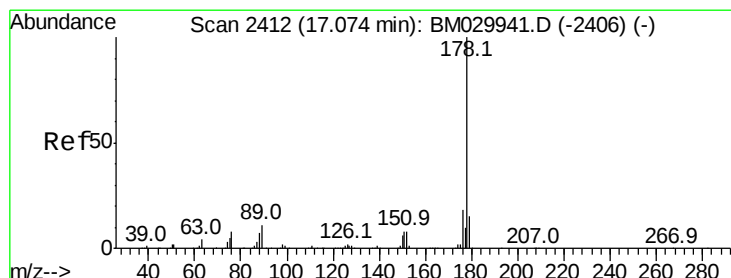
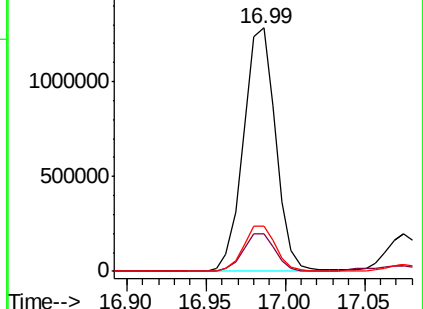
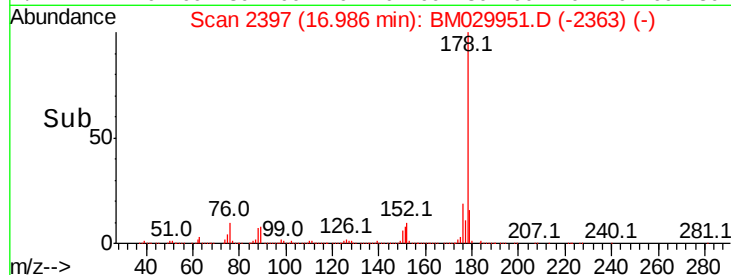
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#74

Anthracene

Concen: 6.942 ng/ul

RT: 17.07 min Scan# 2412

Delta R.T. -0.01 min

Lab File: BM029951.D

Acq: 11 May 2021 20:13

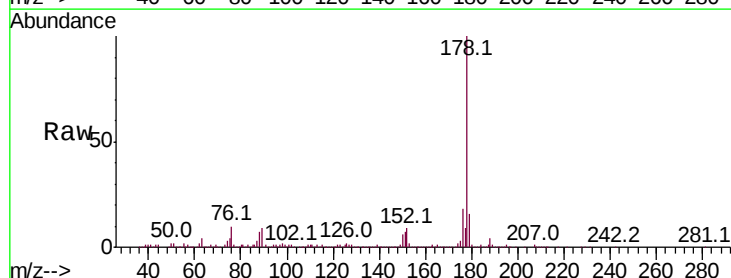
Tgt Ion:178 Resp: 298604

Ion Ratio Lower Upper

178 100

179 16.1 12.2 18.2

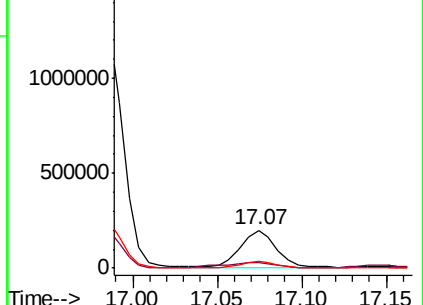
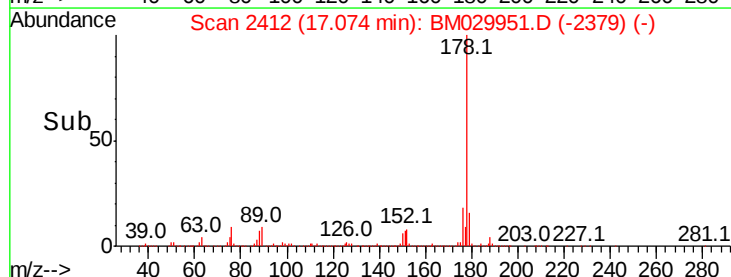
176 17.8 14.9 22.3

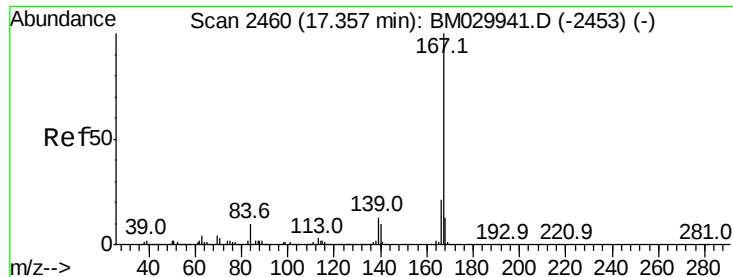


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#77

Carbazole

Concen: 3.810 ng/ul

RT: 17.35 min Scan# 2459

Delta R.T. -0.01 min

Lab File: BM029951.D

Acq: 11 May 2021 20:13

Instrument :

BNA_M

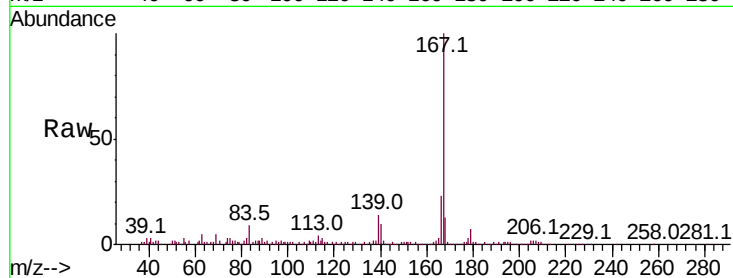
ClientSampleId :

BG591

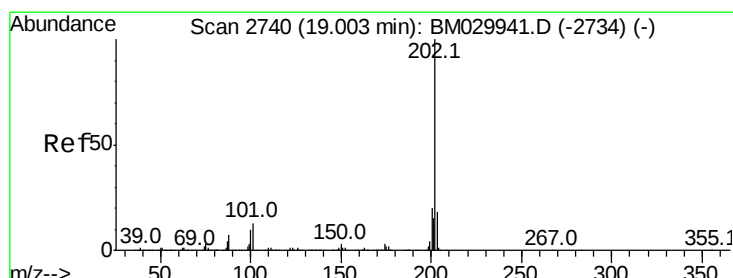
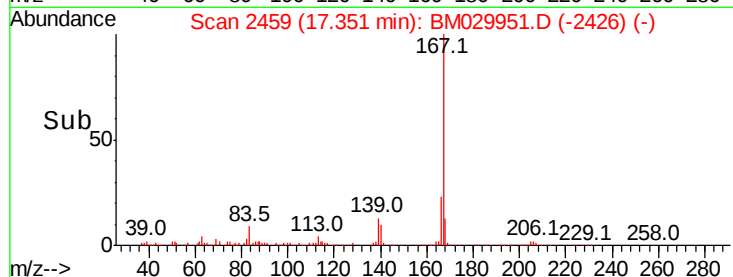
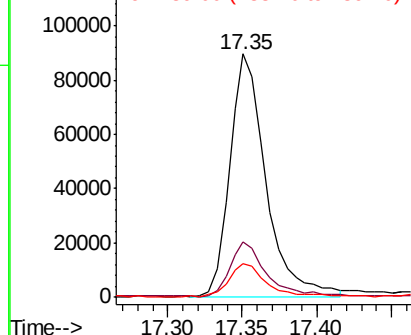
Tot Ion:	167	Resp:	150170
Ion Ratio	Lower	Upper	
167	100		
166	23.0	17.6	26.4
139	13.8	10.2	15.2

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Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E



#80

Fluoranthene

Concen: 52.752 ng/ul

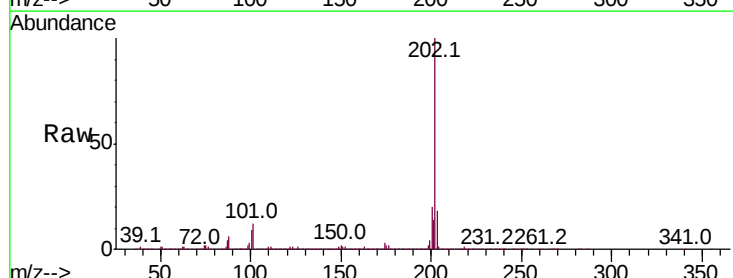
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Delta R.T. -0.01 min

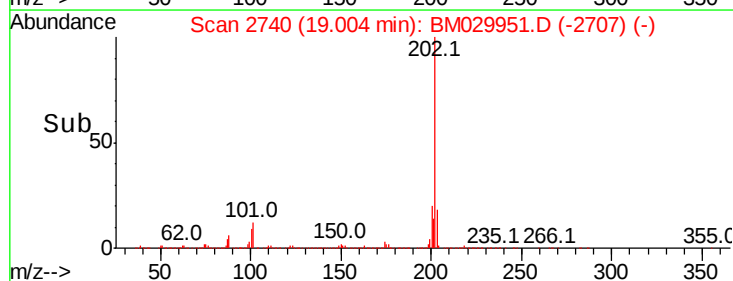
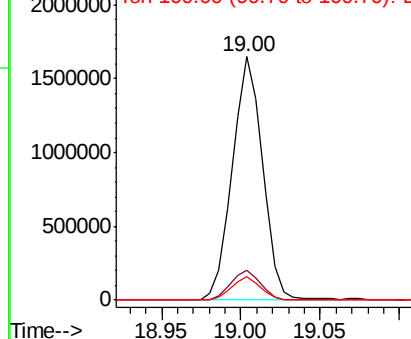
Lab File: BM029951.D

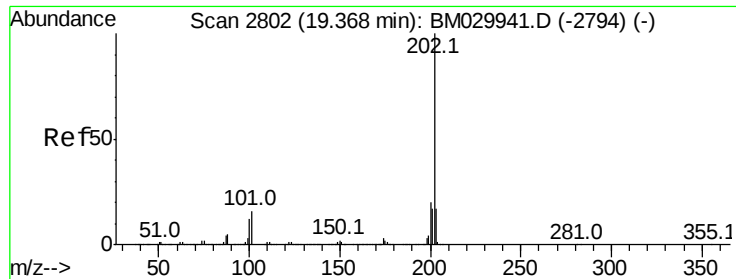
Acq: 11 May 2021 20:13

Tgt Ion:	202	Resp:	2182408
Ion Ratio	Lower	Upper	
202	100		
101	12.0	9.0	13.4
100	9.4	7.0	10.6



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 100.00 (99.70 to 100.70): E





#82

Pvrene

Concen: 44.463 ng/ul

RT: 19.37 min Scan# 2802

Delta R.T. -0.01 min

Lab File: BM029951.D

Acq: 11 May 2021 20:13

Instrument :

BNA_M

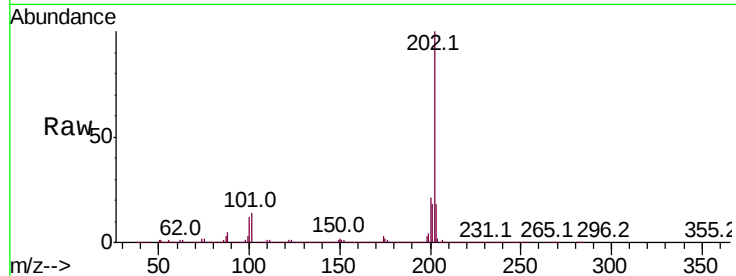
ClientSampleId :

BG591

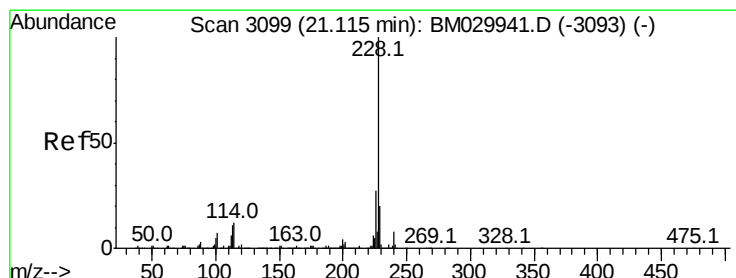
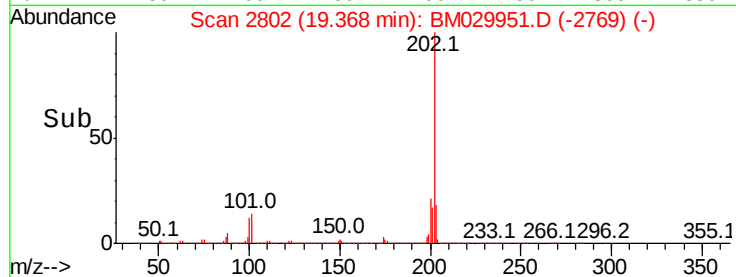
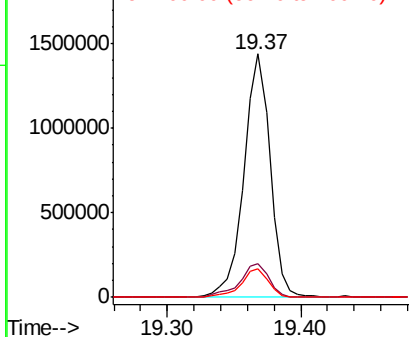
Tot Ion:	202	Resp:	1935827
Ion Ratio	Lower	Upper	
202	100		
101	14.0	11.8	17.6
100	11.6	9.2	13.8

Manual Integrations
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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 100.00 (99.70 to 100.70): B



#85

Benzo(a)anthracene

Concen: 23.883 ng/ul

RT: 21.12 min Scan# 3099

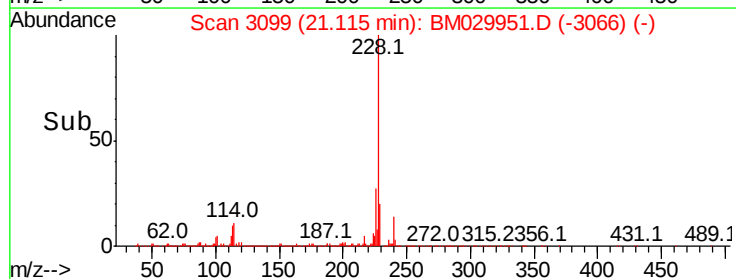
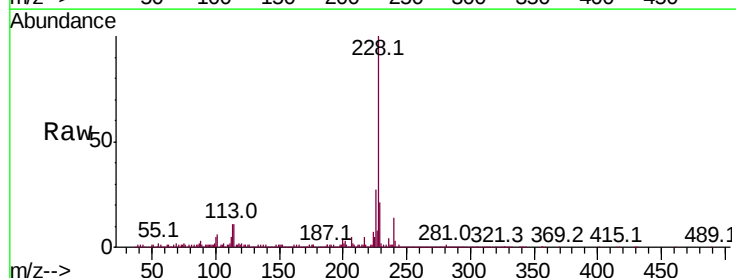
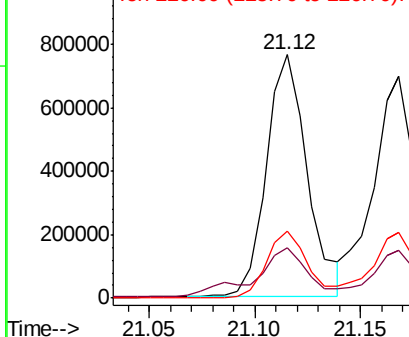
Delta R.T. -0.01 min

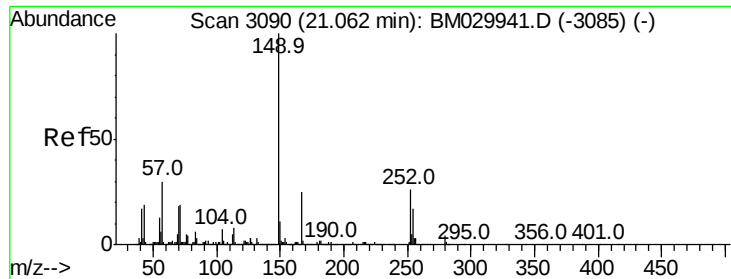
Lab File: BM029951.D

Acq: 11 May 2021 20:13

Tgt Ion:	228	Resp:	1032563
Ion Ratio	Lower	Upper	
228	100		
229	20.6	15.9	23.9
226	27.3	21.4	32.0

Abundance Ion 228.00 (227.70 to 228.70): E
Ion 229.00 (228.70 to 229.70): E
Ion 226.00 (225.70 to 226.70): E





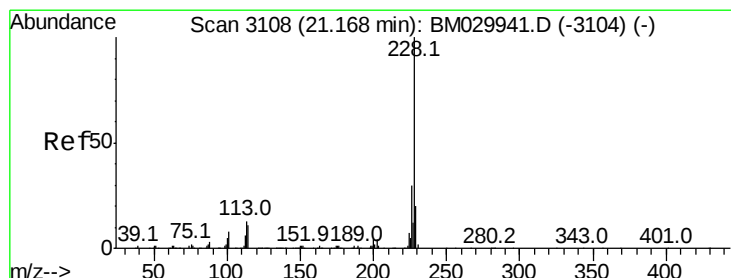
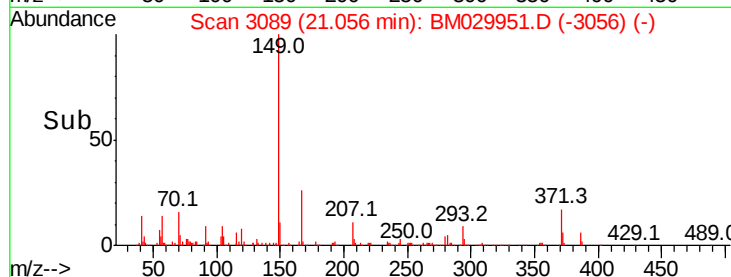
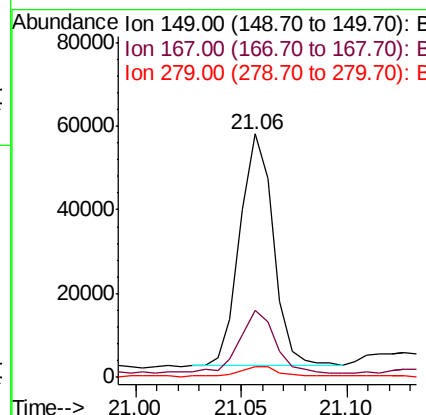
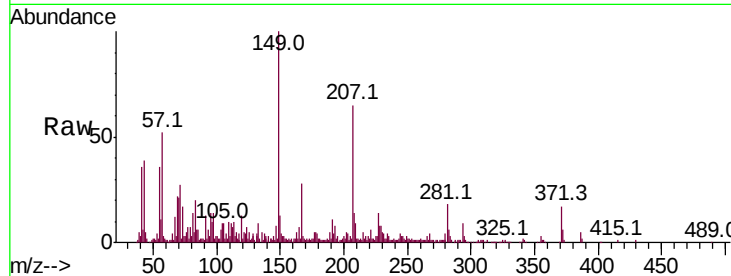
#86
Bis(2-ethylhexyl)phthalate
Concen: 2.266 ng/ul
RT: 21.06 min Scan# 3089
Delta R.T. -0.01 min
Lab File: BM029951.D
Acq: 11 May 2021 20:13

Instrument :
BNA_M
ClientSampled :
BG591

Tot Ion	Ratio	Lower	Upper
149	100		
167	27.5	21.1	31.7
279	4.5	3.5	5.3

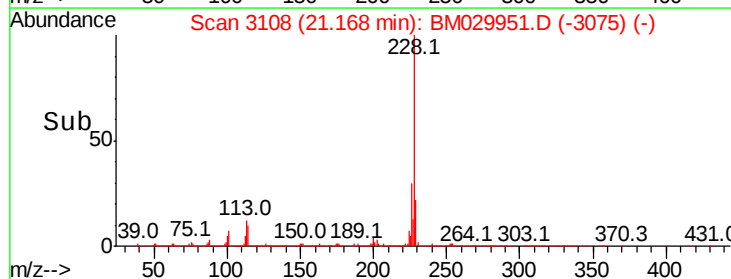
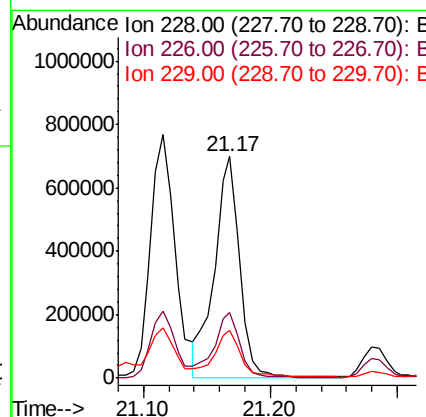
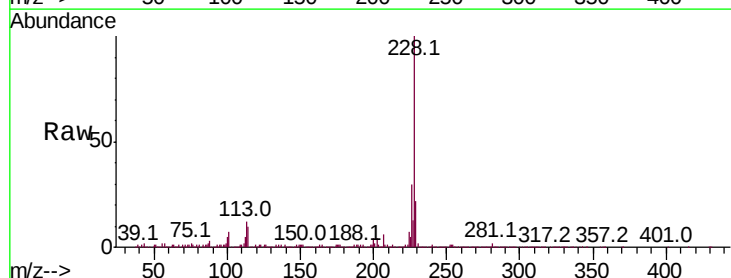
Manual Integrations
APPROVED

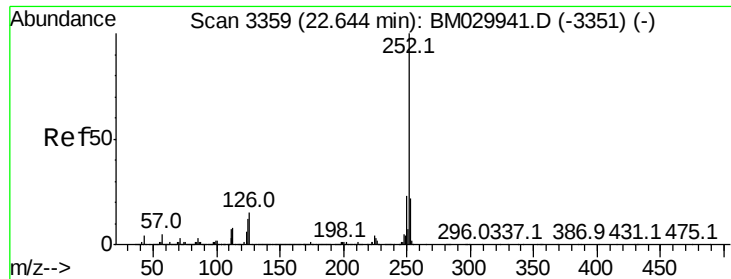
mohammad
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#87
Chrysene
Concen: 22.599 ng/ul
RT: 21.17 min Scan# 3108
Delta R.T. -0.01 min
Lab File: BM029951.D
Acq: 11 May 2021 20:13

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.6	23.9	35.9
229	21.8	15.6	23.4





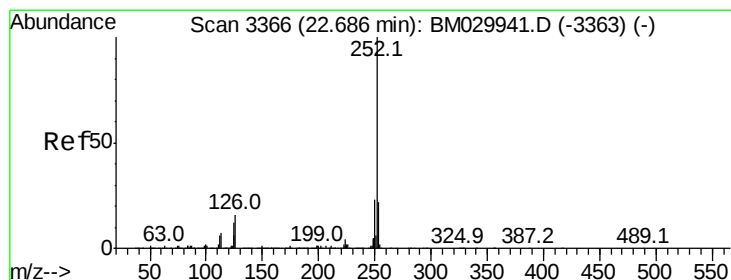
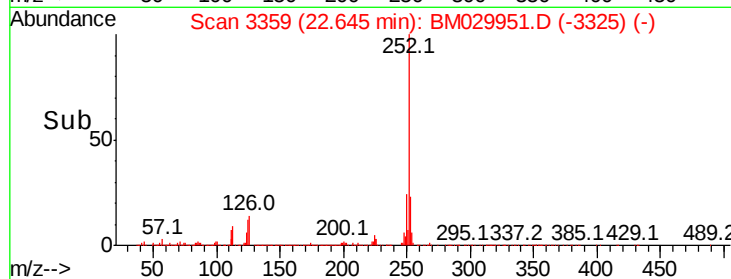
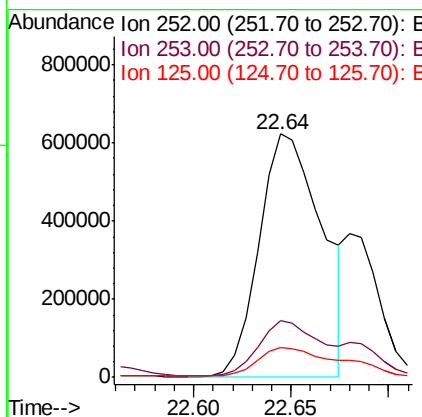
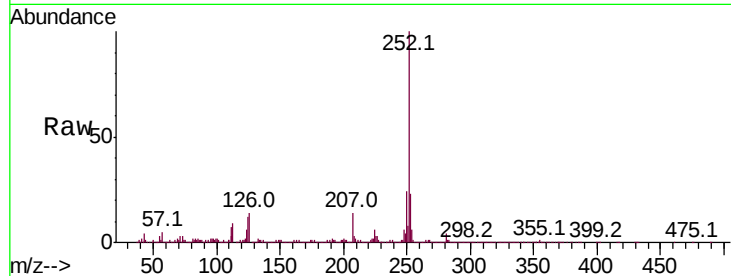
#90
Benzo(b)fluoranthene
Concen: 31.362 ng/uL
RT: 22.64 min Scan# 3359
Delta R.T. 0.00 min
Lab File: BM029951.D
Acq: 11 May 2021 20:13

Instrument :
BNA_M
ClientSampleId :
BG591

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.4	26.2
125	12.1	8.6	12.8

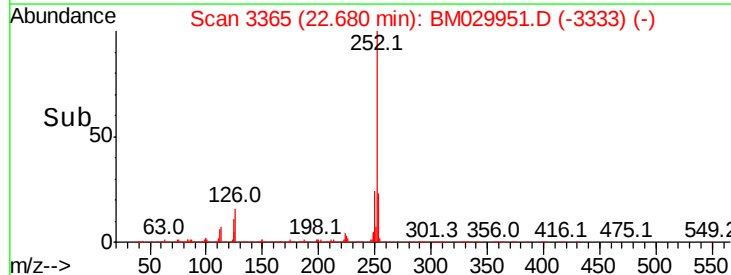
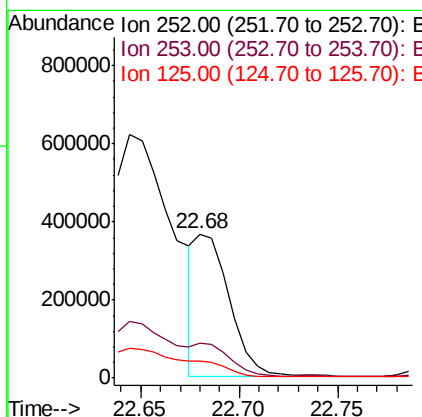
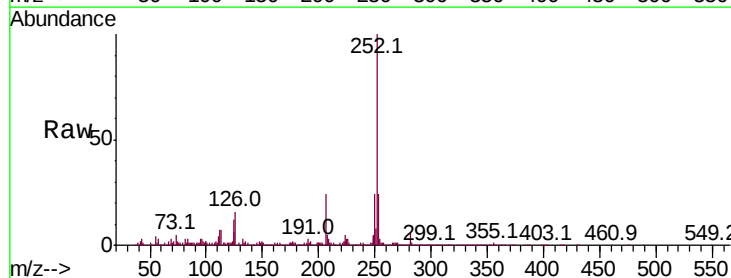
Manual Integrations
APPROVED

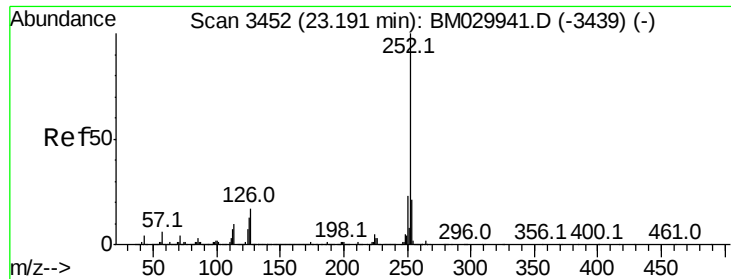
mohammad
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#91
Benzo(k)fluoranthene
Concen: 9.460 ng/uL m
RT: 22.68 min Scan# 3365
Delta R.T. -0.01 min
Lab File: BM029951.D
Acq: 11 May 2021 20:13

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.8	26.8
125	12.0	8.4	12.6





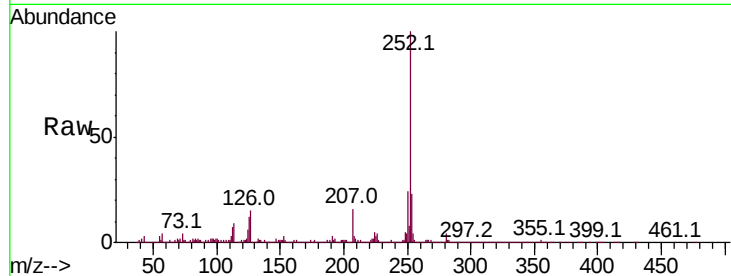
#93
Benzo(a)pyrene
Concen: 24.158 ng/ul
RT: 23.19 min Scan# 3452
Delta R.T. -0.01 min
Lab File: BM029951.D
Acq: 11 May 2021 20:13

Instrument :
BNA_M
ClientSampleId :
BG591

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.9	26.9
125	12.0	9.6	14.4

Manual Integrations
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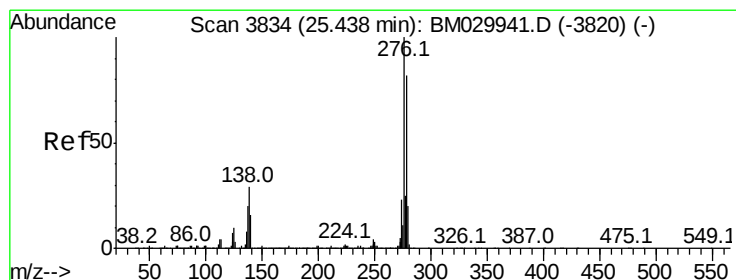
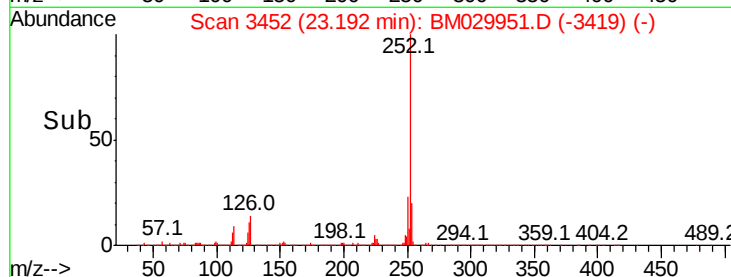
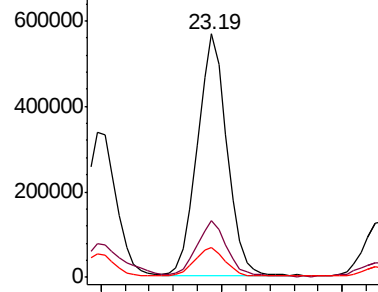


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#94
Indeno(1,2,3-cd)pyrene
Concen: 13.257 ng/ul
RT: 25.43 min Scan# 3833
Delta R.T. -0.01 min
Lab File: BM029951.D
Acq: 11 May 2021 20:13

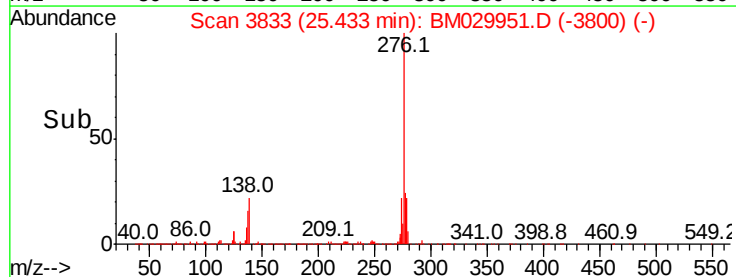
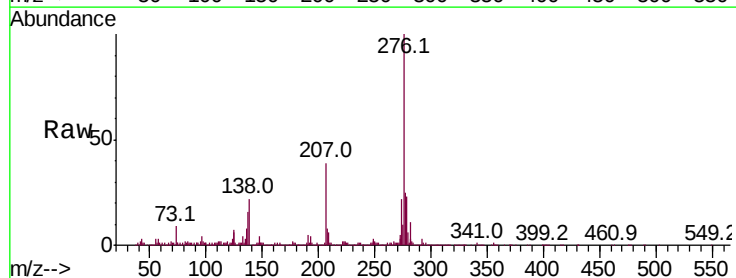
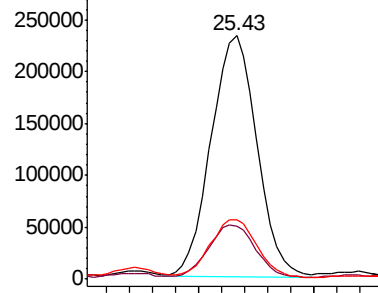
Tgt Ion	Ratio	Lower	Upper
276	100		
138	21.9	21.1	31.7
277	24.5	20.3	30.5

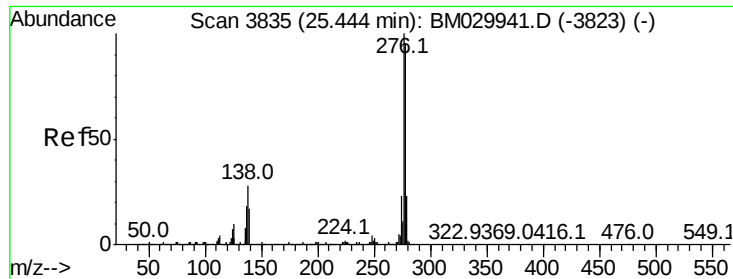
Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





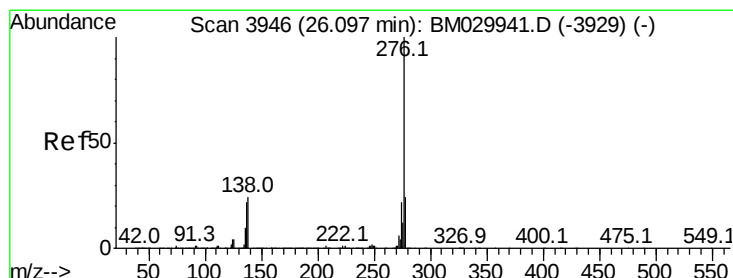
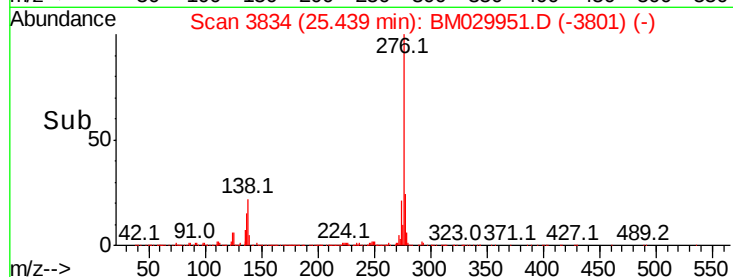
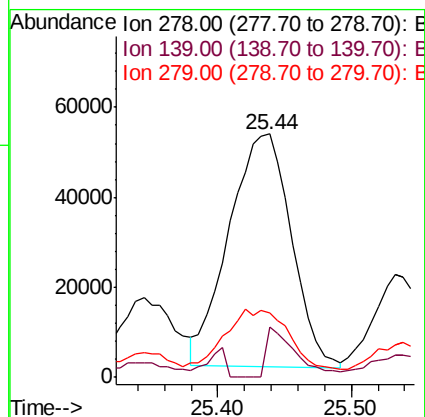
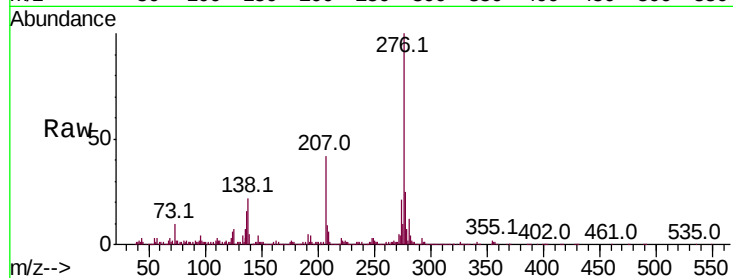
#95
Dibenzo(a,h)anthracene
Concen: 4.077 ng/ul
RT: 25.44 min Scan# 3834
Delta R.T. -0.01 min
Lab File: BM029951.D
Acq: 11 May 2021 20:13

Instrument :
BNA_M
ClientSampleId :
BG591

Tot Ion	Ratio	Lower	Upper
278	100		
139	20.9	13.5	20.3#
279	26.5	18.6	28.0

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#96
Benzo(g,h,i)perylene
Concen: 13.132 ng/ul
RT: 26.09 min Scan# 3945
Delta R.T. 0.00 min
Lab File: BM029951.D
Acq: 11 May 2021 20:13

Tgt Ion	Ratio	Lower	Upper
276	100		
138	22.6	17.8	26.8
277	24.5	18.5	27.7

